GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA

UNSTARRED QUESTION NO:4973
ANSWERED ON:24.04.2003
BIO-GAS PLANTS
RAVINDRA KUMAR PANDEY

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the number of Bio-Gas Plants set up in each State particularly in Madhya Pradesh and Jharkhand during the last two years;

(b) the number out of them which are functioning and these lying closed, location-wise;

(c) whether the bio-gas chulha is available in the market, if not, the reasons therefor;

(d) the details of bio-gas plants to be set up during the current financial year and the time by which the same are likely to be finalized;

(e) whether any major improvements in designs and technology have been effected during the above period; and

(f) the details of the equivalent of fuelwood saved annually after installation of these bio-gas plants and the details of the Government`s plans for increasing the present number, especially large community plants for villages?

Answer

MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN)

(a): Information for two States is given below and for other States indicated in the Annexure:

State	No. of family type biogas plants set up during 2001-02 and 2002-03
Madhya Pradesh	23,310
Jharkhand	605

(b): Location-wise particulars of biogas plants, including information on functioning and those lying closed, is generally maintained at the block/district level by the State nodal departments/agencies; in the State Offices of the Khadi and Village Industries Commission and at the headquarters of non-governmental organizations concerned. Concurrent monitoring carried out on a sample of about 9,480 plants in 26 States by four independent organizations in the year 2002-03, indicated that about 79 per cent plants were functioning. The remaining 21 per cent plants were either under completion/ commissioning or lying closed due to various reasons, such as, poor quality of construction; difficulty in getting water for mixing with dung; improper laying of gas distribution pipe line; etc.

(c): Biogas burners (chulhas) manufactured under quality specifications of the Bureau of Indian Standards are easily available in the market.

(d): A target of setting up of 1.5 lakh family type biogas plants has already been finalized for the current financial year 2003-04.

(e): Improvements in the designs and technology brought out during the last two years include: development and promotion of new fixed dome models made of
(i) ferro-cement with in-situ construction technique and
(ii) pre-fabricated reinforced cement concrete; field testing of a plug flow digester made of brick masonry for production of biogas from leafy biomass; and studies on the use of microbial cultures adapted at a temperature of 10o Celcius for biogas production from cattle dung in an insulated digester made of fibre reinforced plastic.

(f): The plants set up during the last two years are estimated to result in the saving of about 2.75 lakh tonnes of fuelwood equivalent per year. The Government have planned a target of setting up of about 10 lakh more family type biogas plants during the X Plan (2002-07). Large community biogas plants were promoted in villages mainly up to the year 1994-95 under a separate scheme. But majority of such plants did not function on a sustainable basis mainly due to managerial and operational problems.

Annexure

Annexure referred to in reply to part (a) of the Lok Sabha Unstarred Question No.4973 to be replied on 24-04-2003 regarding Bio-Gas Plants by Shri Ravindra Kumar Pandey.

State-wise number of family type biogas plants set-up during the last two years, i.e. 2001-02 and 2002-03 (April, 2002 to February, 2003) under the Centrally Sponsored Scheme- National Project on Biogas Development (NPBD), which is now called as Nationa Biogas and Manure Management Programme (NBMMP)

State	Number of plants set up
Andhra Pradesh	40,502
Arunachal Pradesh	511
Assam	5,886
Bihar	4,403
Chattisgarh	6,912
Gujarat	12,468
Goa	141
Haryana	3,135
Himachal Pradesh	801
Karnataka	52,323
Kerala	13,887
Maharashtra	23,665
Meghalaya	562
Mizoram	577
Nagaland	304
Orissa	21,561
Punjab	9,029
Rajasthan	715
Sikkim	1,057
Tamilnadu	4,664
Tripura	377
Uttar Pradesh	23,157
Uttaranchal	2435
West Bengal	30,738
Others	130